ThinkCentre® M90z (3429) - TopSeller (Windows 7)

	Type-model	Proc-essor	GHz	Memory	Widescreen display	Camera (mega-pixel)	Integrated graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Stand type	Intel vPro	Win7 preload	Global Educ	Avail date
	3429-A1U	G6950	2.80	2GBx1	23.0" Full HD		Intel HD	320GB[2]	DVD±RW	Intel 1000	Frame		Pro 32	None	Jun 10
✂	3429-A2U	i3-530	2.93	2+1GB	23.0" Full HD	2.0M	Intel HD	500GB	DVD±RW	Intel 1000	Frame		Pro 32	None	Jun 10
☞	3429-D6U	G6960	2.93	2GBx1	23.0" Full HD	2.0M	Intel HD	320GB	DVD±RW	Intel 1000	Frame		Pro 64	None	Jan 11
	3429-D3U	i3-550	3.20	2+1GB	23.0" Full HD	2.0M	Intel HD	320GB	DVD±RW	Intel 1000	Frame		Pro 64	None	Dec 10
	3429-A3U	i5-650	3.20	2GBx2	23.0" Full HD	2.0M	Intel HD	500GB	DVD±RW	Intel 1000	Frame	vPro	Pro 64	None	Jun 10

- ***Best space saving solution & excellent cable management***
- ***These small and medium business (SMB) models are part of the US TopSeller™ Program***
- ***These models have a 3-year limited warranty[1]***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

Positioning	*All-In-One PC for the enterprise*
Processor	**Intel® Pentium® Processor G6950** or **G6960** with **dual-core**, Intel 64, Virtualization Technology, integrated 1066MHz dual-channel DDR3 memory controller, and 3MB cache or **Intel Core™ i3 Processor i3-530** or **i3-550** with **dual-core**, Intel 64, Hyper-Threading Technology, Virtualization Technology, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache or **Intel Core i5 Processor i5-650** with **dual-core**, Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache
Implementation	Processor in LGA1156 socket
Memory	**2GB**, **3GB**, or **4GB** std, 8GB max[8], **PC3-10600 1333MHz DDR3***, dual-channel capable, two 204-pin SODIMM sockets (notebook) * System automatically clocks down for processors with 1066MHz DDR3 memory controller
Graphics	**Intel HD Graphics** in processor, HDCP, DirectX® 10, uses main memory (up to 765MB *[2GB models]*, 1277MB *[3GB models]*, or 1759MB *[4GB models]*), one DisplayPort™ connector, supports dual independent display
DP dongle	None
Widescreen	**23.0"** (584.2mm) **Full HD 1080p (1920x1080) TFT color**, anti-glare, CCFL backlight, 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio, work as standalone monitor via VGA-in connector
Multi-touch	None
Camera	*Some:* Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical on/off switch
SATA disk	**320GB** or **500GB**, SATA 3.0Gb/s, 3.5" wide, 7200 rpm
SATA DVD±RW	DVD burner, SATA 1.5Gb/s, 12.7mm high
eSATA port	None
Diskette drive	None
Media reader	None
Chipset	**Intel Q57 Express Chipset** Platform Controller Hub (PCH) for SATA, ethernet, and USB
Ports	*Rear:* four USB 2.0, ethernet (RJ-45), DisplayPort, VGA-in connector *Side:* two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
PCIe Mini Card	One PCI Express Mini Card slot
Intel 1000	11b/g/n wireless[13], PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2
Bluetooth™	None
Ethernet	One gigabit ethernet port, Intel 82578DM
Audio	High Definition (HD) Audio, Realtek® ALC269 codec
Speaker	Two internal speakers (2watt x 2)
IEEE 1394	None
Intel AMT	*vPro model(s):* Intel Active Management Technology 6.0 (Intel AMT 6.0)
Modem	None
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo
Power supply	150 watts, autosensing, 85% PSU, 80 PLUS® Bronze qualified

Preloaded operating system[20]

- *Some:* Genuine Windows® 7 Professional 32
- *Some:* Genuine Windows 7 Professional 64

Preloaded applications[5] (all OSes; only some listed)

- Rescue and Recovery™
- Password Manager
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Toolbox
- Norton Internet Security 2011 (30-day)
- Microsoft Office 2010 preloaded; purchase product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Accessories

2GB PC3-10600 DDR3 SODIMM	55Y3710
ThinkCentre M90z Height Adjustable Stand	57Y4351

More accessories on O-M90Z sheet

Acc Guide in pdf **lenovo.com**/accessoriesguide
Other accessories at **lenovo.com**/accessories

All-In-One

All:
- Business black color
- Handle in rear
- Support VESA mount (100mm)
- Tool-less back cover, disk, optical drive, memory removal

Model(s) with Frame stand:
- 22" W X 4.29" D X 17.4" H
- 560mm W X 109mm D X 443mm H
- 23.6 lb (10.7 kg) in maximum configuration

Bay ①	3.5",	1" high,	no access, std disk (desktop)
Bay ②	slim,	.5" high,	access, std optical (notebook)

Security

- Security chip (see information left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Boot sequence control
- Boot without keyboard, mouse
- Individual USB port disablement

Supports ThinkVantage® technologies

- EPEAT™ Gold rating
- ENERGY STAR® 5.0-compliant
- TCO Certified Edge
- GREENGUARD® certified
- RoHS-compliant

Limited Warranty[1]

- **3-year parts and labor**
- **International Warranty Service**[9]
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts[3], 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
- **Onsite service upgrade options (in eligible locations):**[7]
  - **3-year LOR 9x5, 4 hour response** (ThinkPlus™ part number 41C9192)
  - **3-year LOR 24x7, 4 hour response** (ThinkPlus part number 41C9193)
  - **4-year LOR 9x5, Next Business Day** (ThinkPlus part number 41C9194)
  - **4-year LOR 9x5, 4 hour response** (ThinkPlus part number 41C9195)
  - **4-year LOR 24x7, 4 hour response** (ThinkPlus part number 41C9196)
- **ThinkPlus services at lenovo.com**/thinkplus/warranty
- **Post warranty maintenance services available**
- **24 hour x 7 day**[14] **toll-free support during the warranty period**[1] **via 800-426-7378**

See footnotes for important warranty information

☞ US model announced January 4, 2011; previous models on May 11 or November 30, 2010

✂ US model withdrawn effective April 2011

© Lenovo